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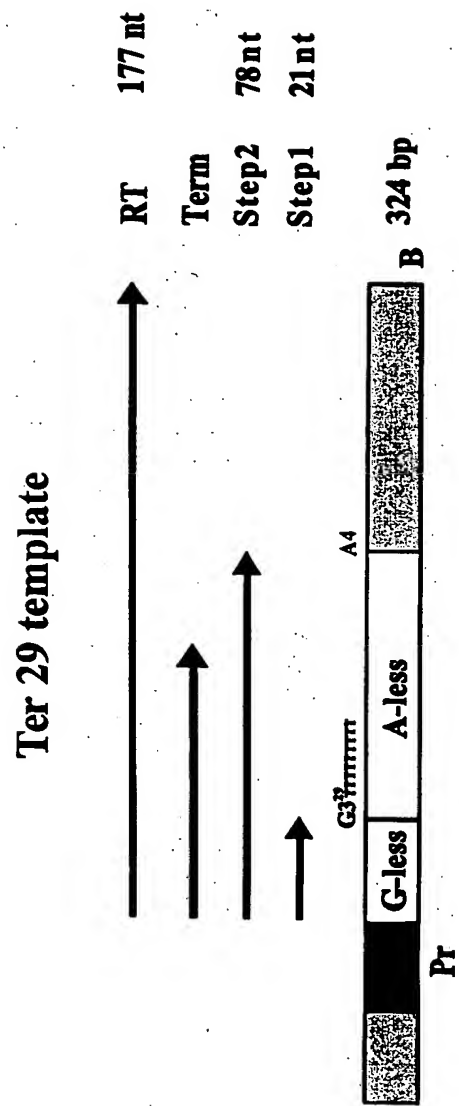
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**Fig. 1**

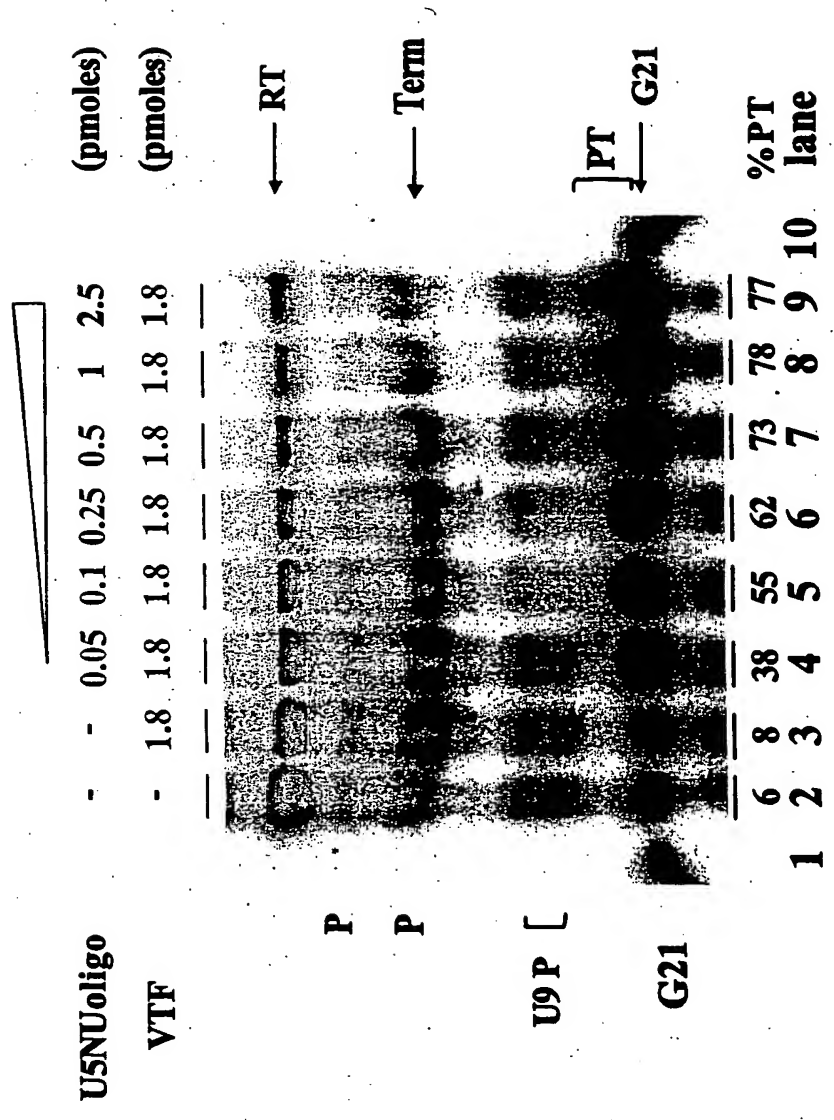


Fig. 2

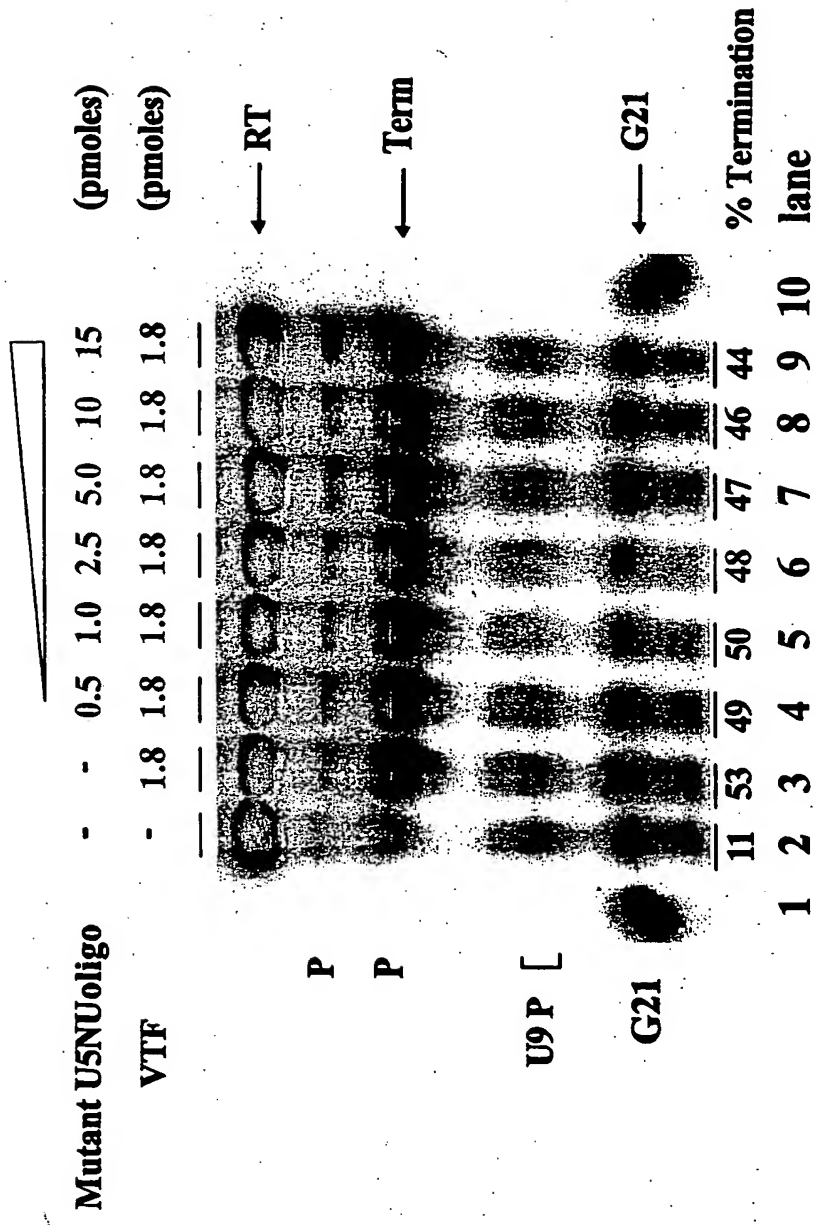


Fig. 3

# Ter-29 template

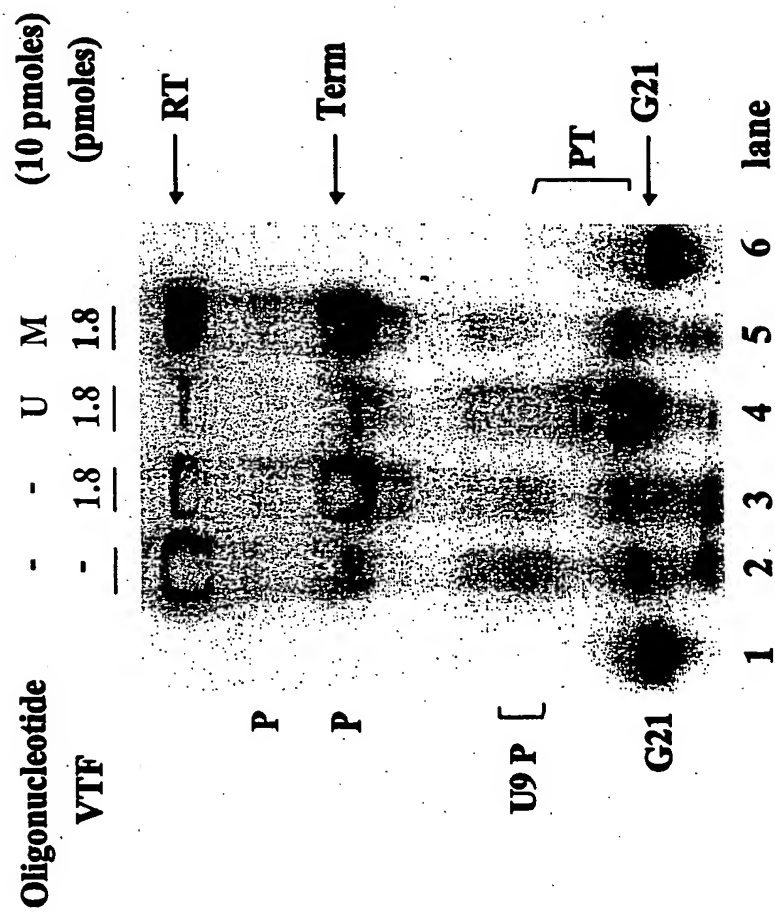


Fig. 4A

# Ter-59 template

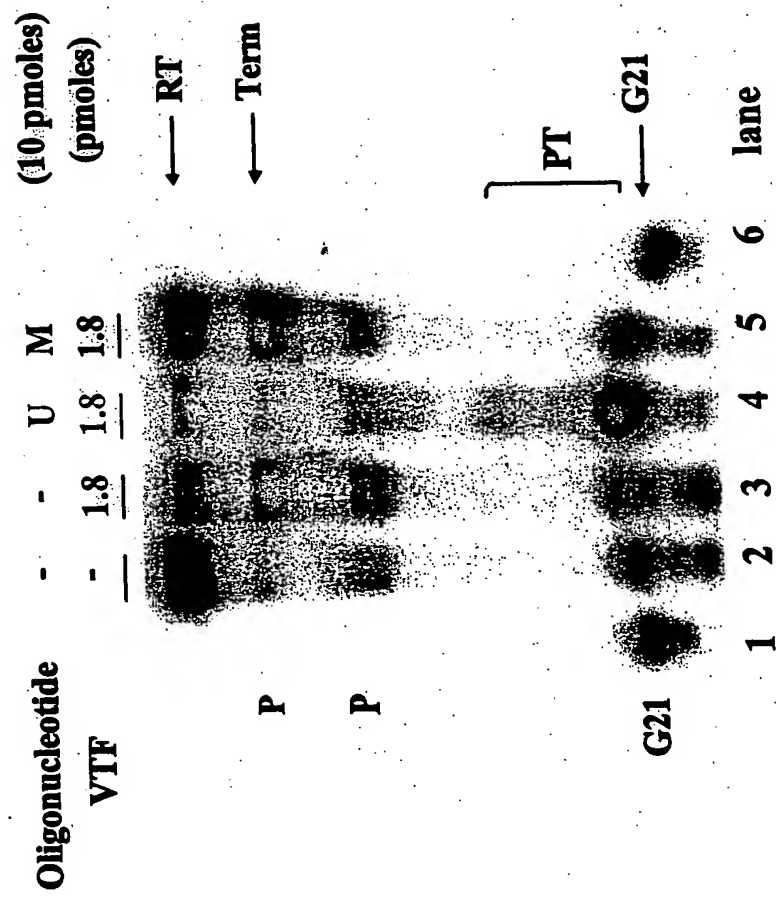


Fig. 4B



Incubation time	-	10	30	60	150	300	600	(Seconds)
Olgo	-	U	U	U	U	U	U	(10 pmoles)
NPH I	+	+	+	+	+	+	+	(1 pmoles)
dATP	+	+	+	+	+	+	+	(20 nmoles)
VTF	+	+	+	+	+	+	+	(3 pmoles)
	-	-	-	-	-	-	-	
	B	F	B	F	B	F	B	F
	F	F	F	F	F	F	F	F
	-	-	-	-	-	-	-	-



21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	% Release
1	2	3	4	5	6	7	8	9	10	11	12	13	14	lane		

Fig. 5B



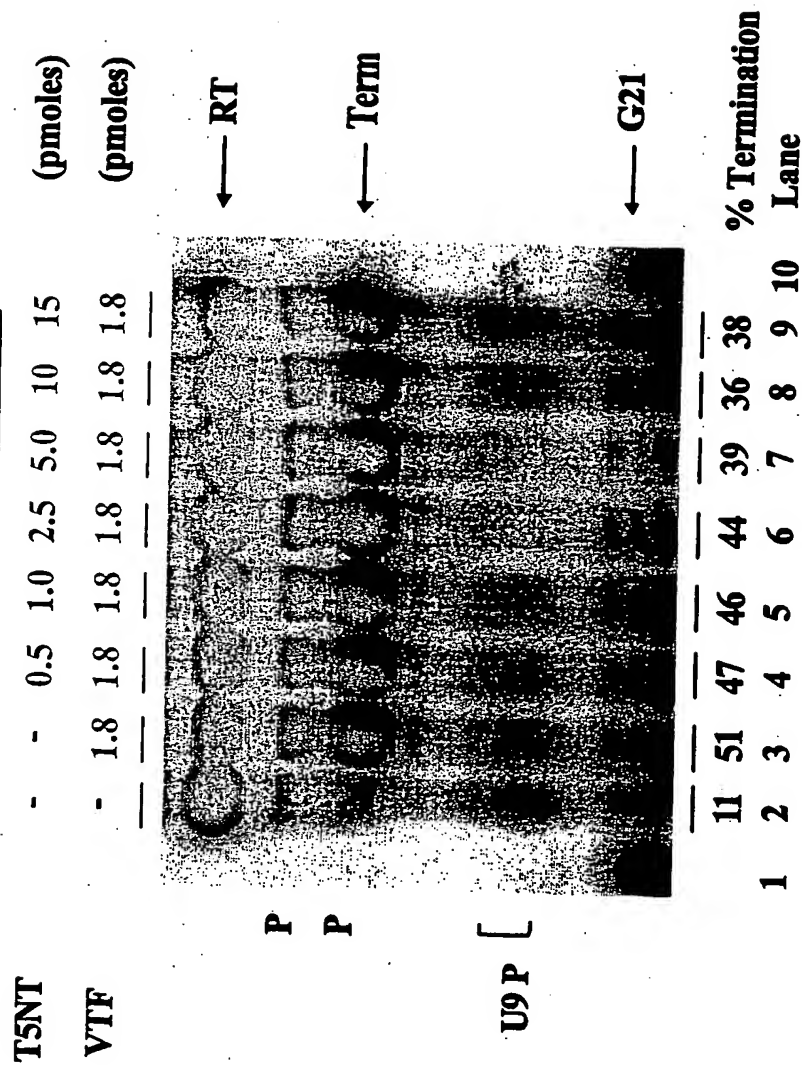
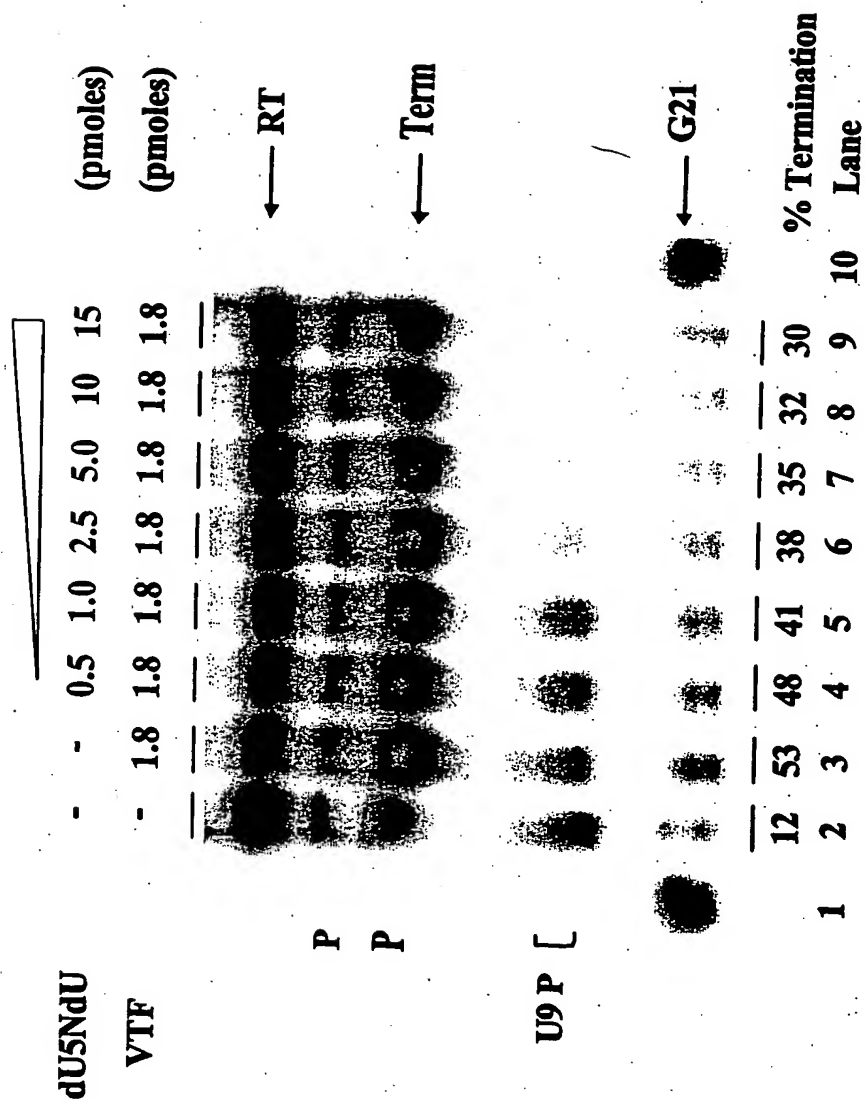


Fig. 6A



**Fig. 6B**

# WT Extract

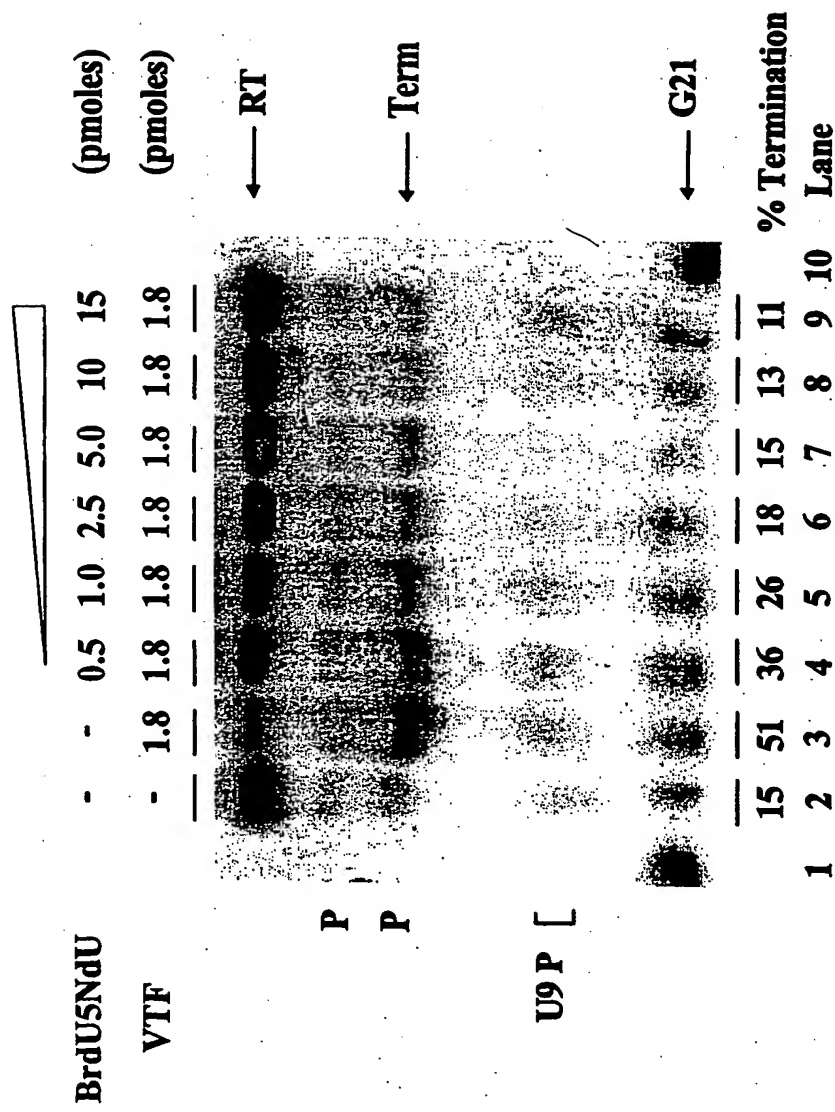
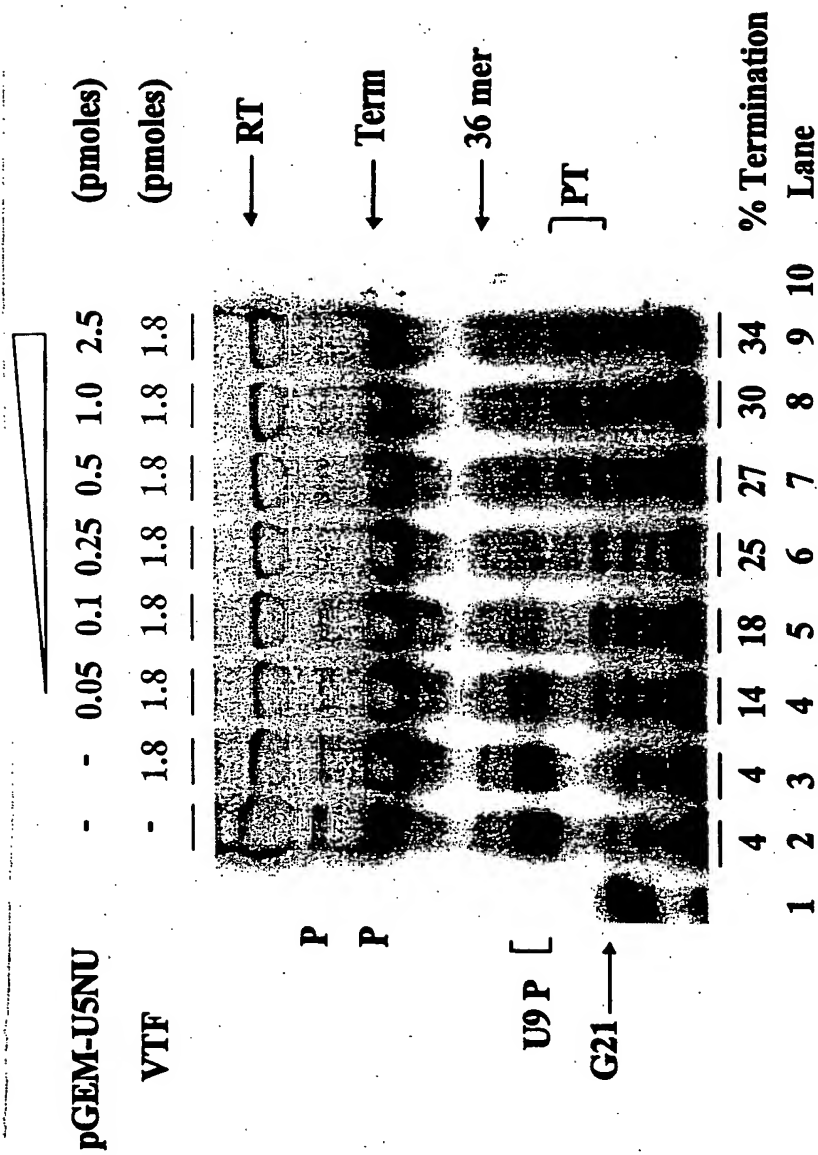


Fig. 6C



**Fig. 7A**

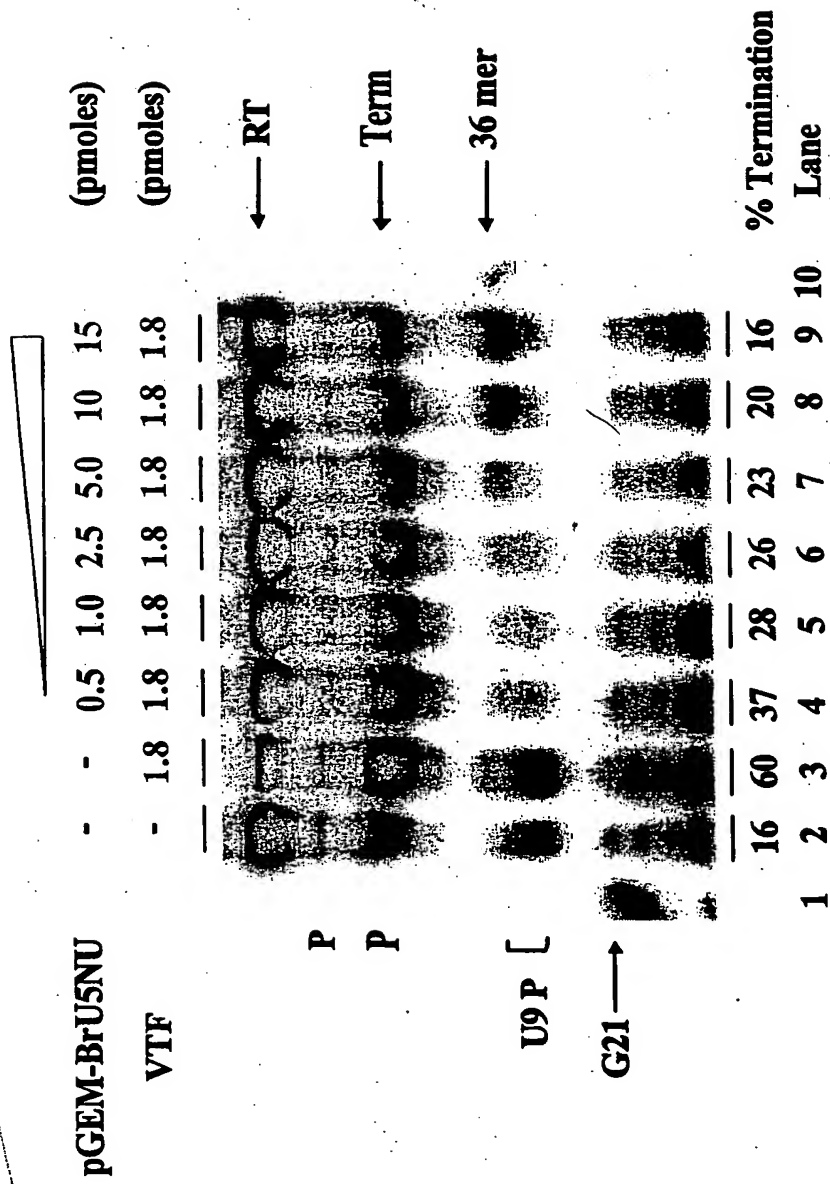


Fig. 7B

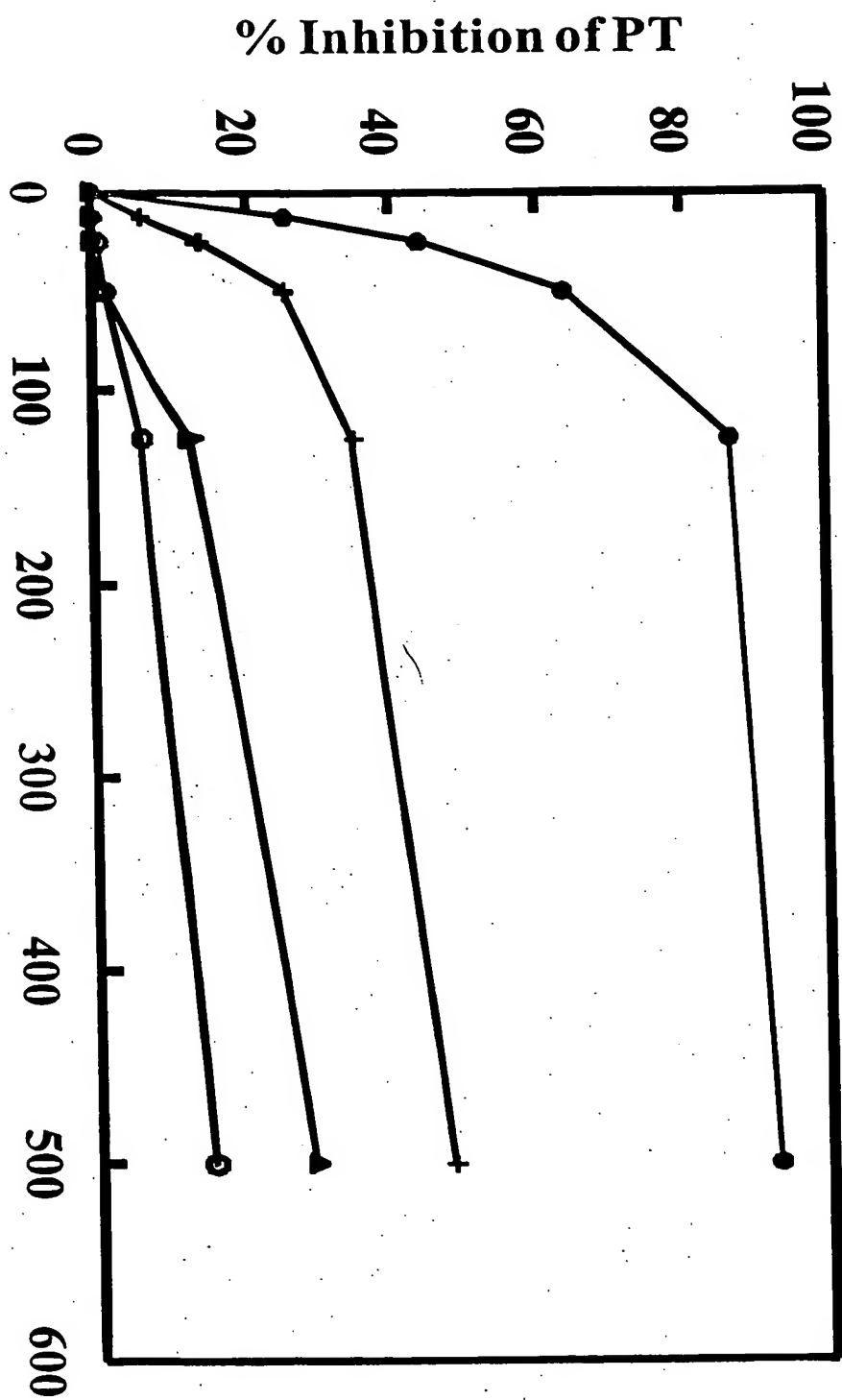


Fig. 8

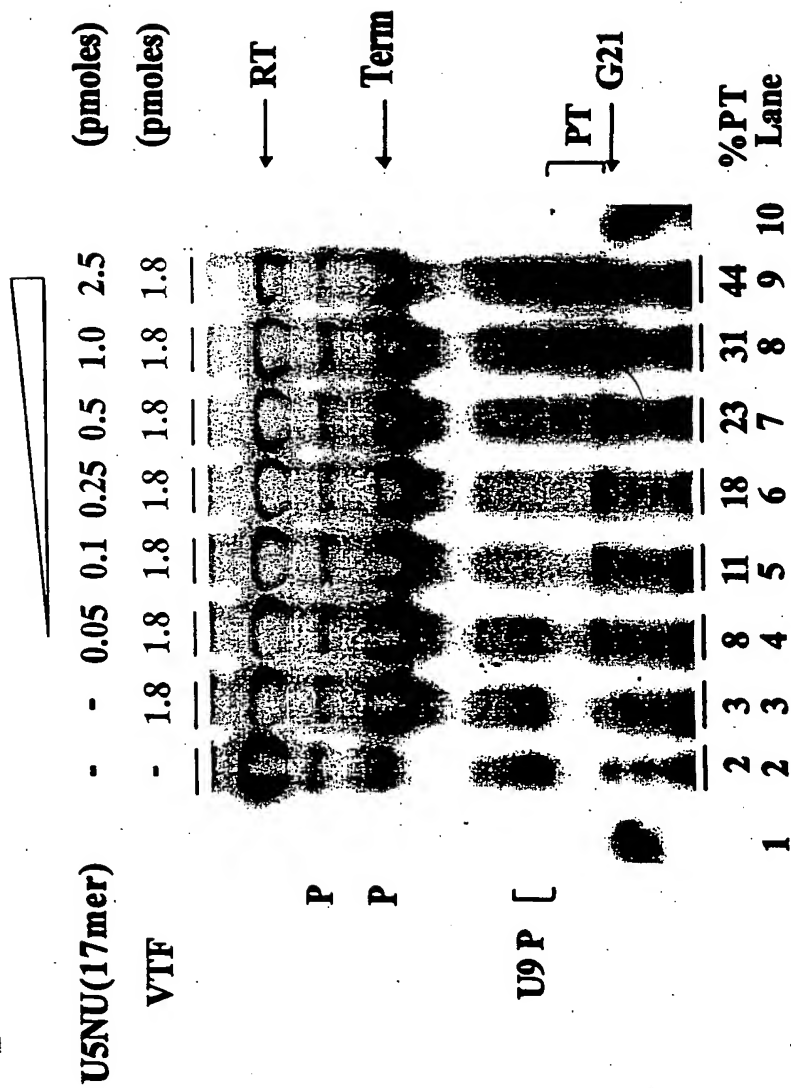


Fig. 9A

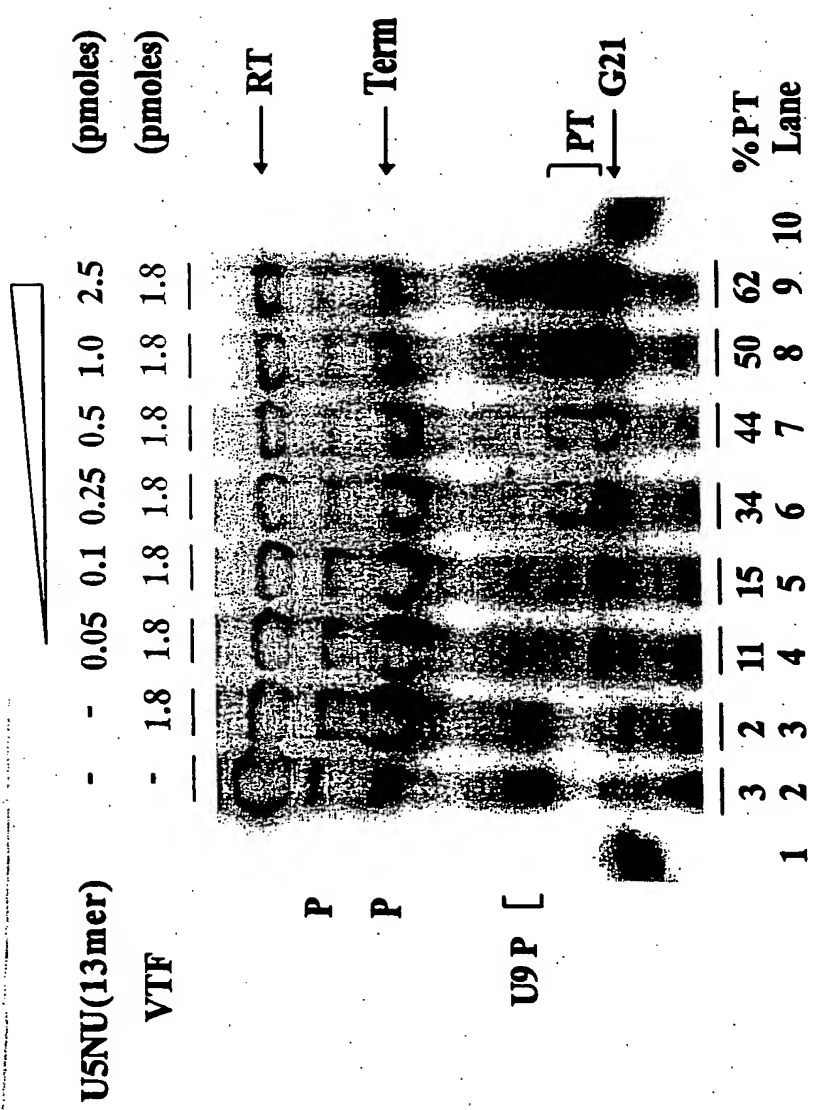


Fig. 9B



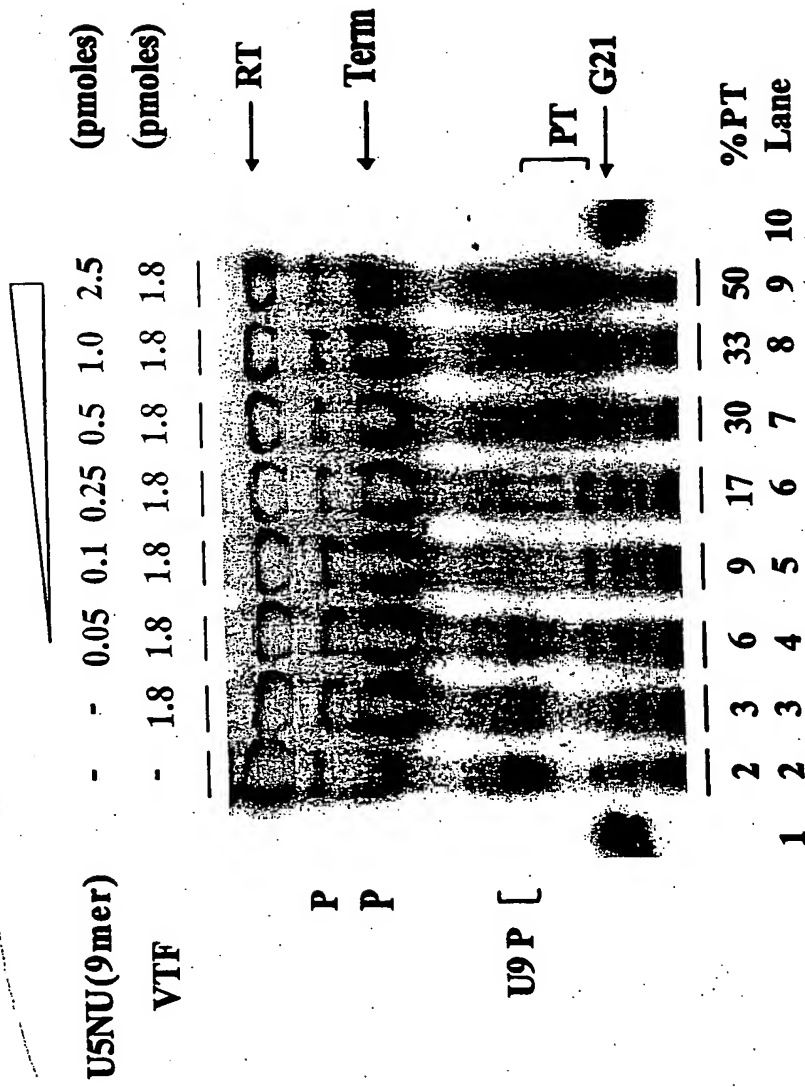


Fig. 9C

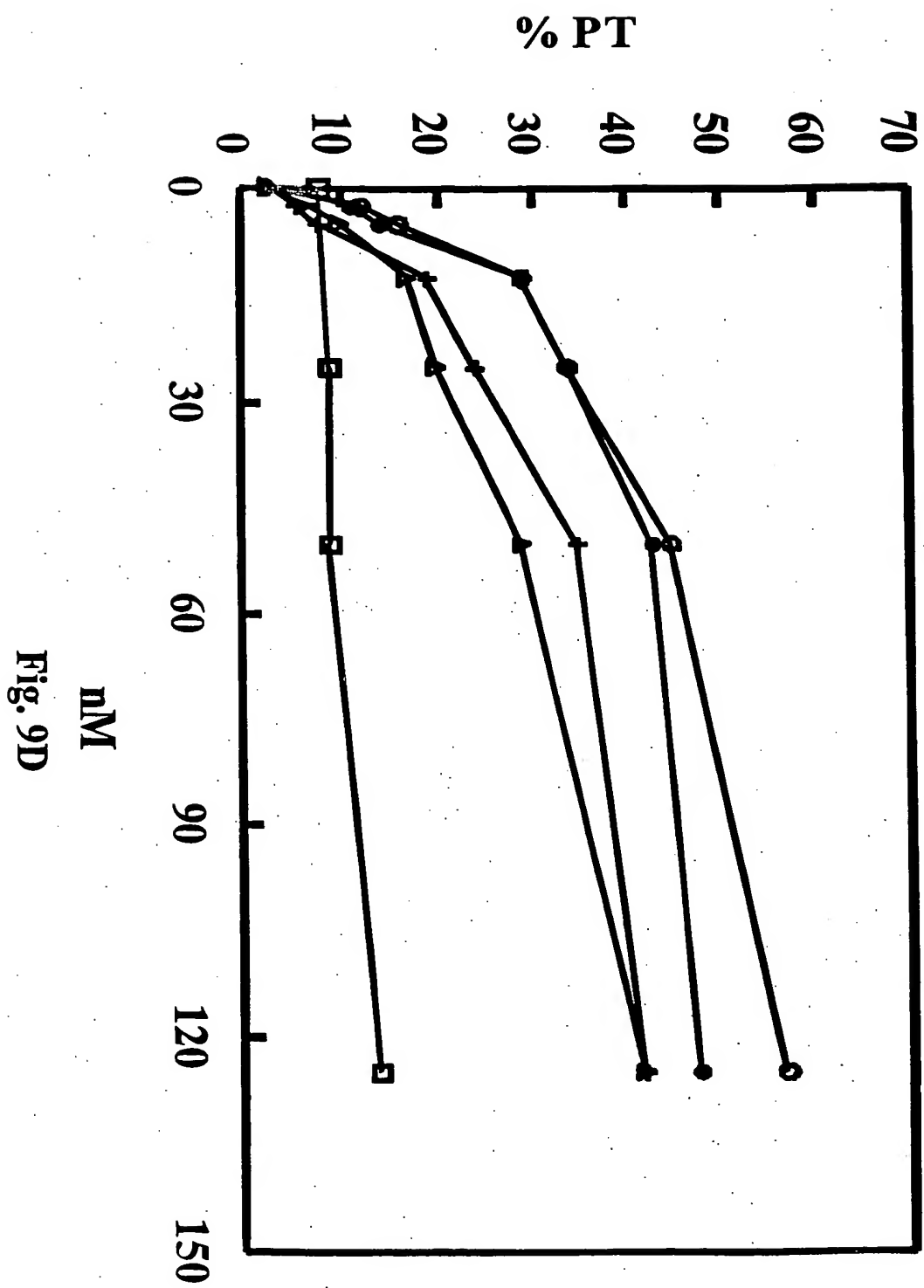


Fig. 9D

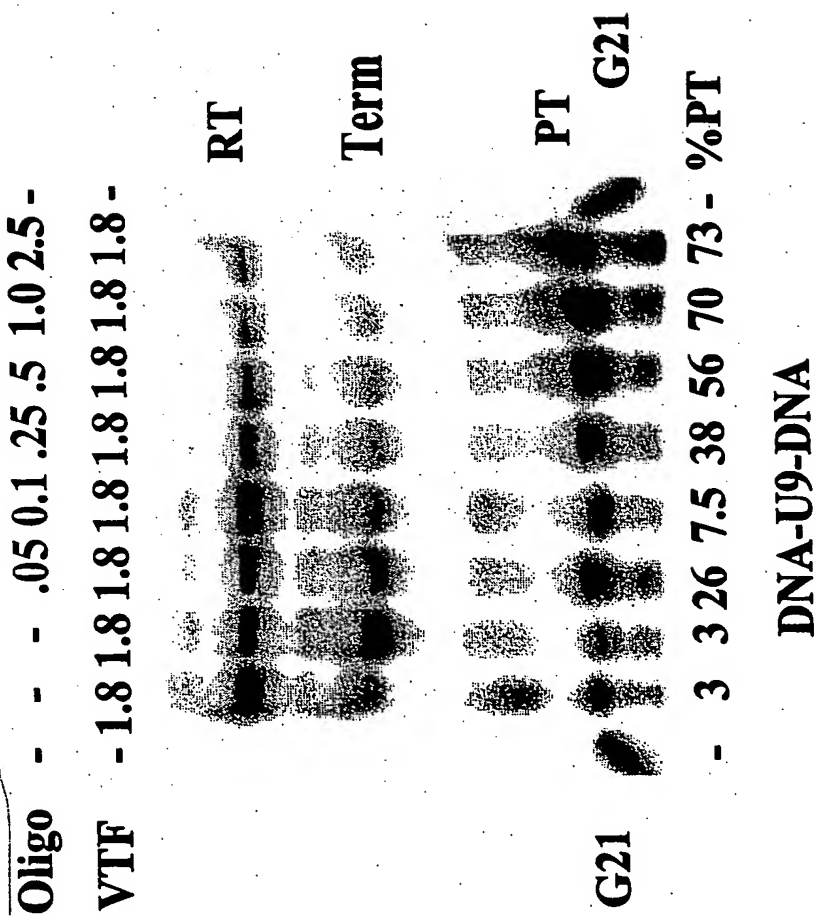
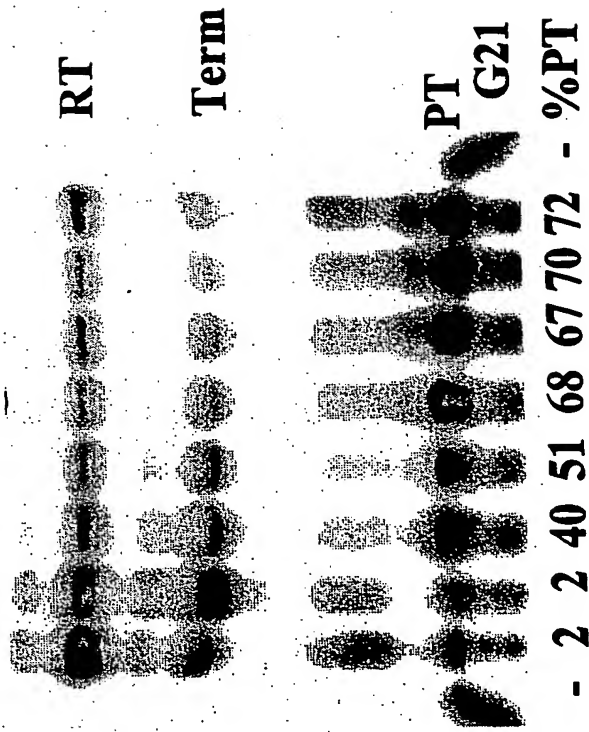


Fig. 10A

Oligo - - - .05 0.1 2.5 5 1.0 2.5 - pmoles  
 VTF - 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 - pmoles



PT-DNA-U9-PT-DNA  
 (Phosphorothiol)

Fig. 10B

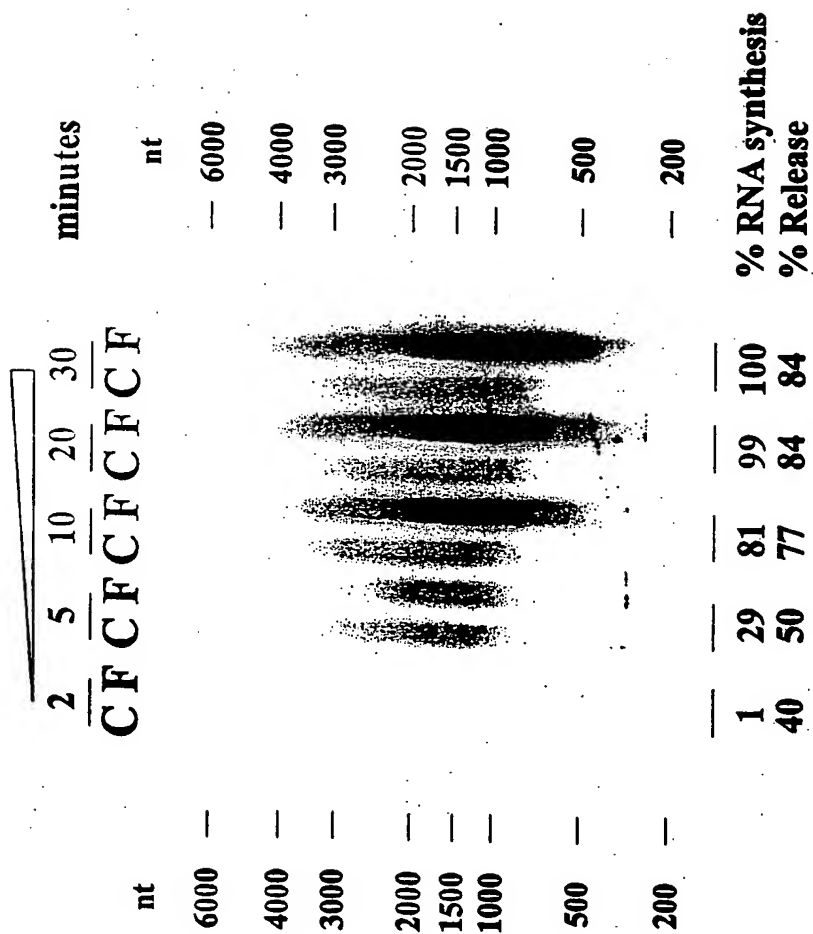
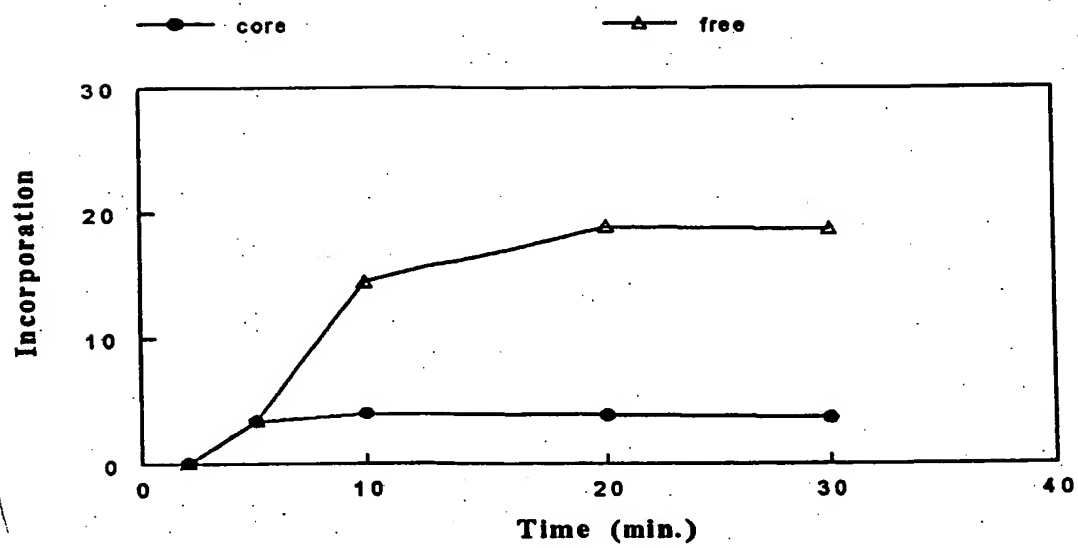


Fig. 11A



**Fig. 11B**

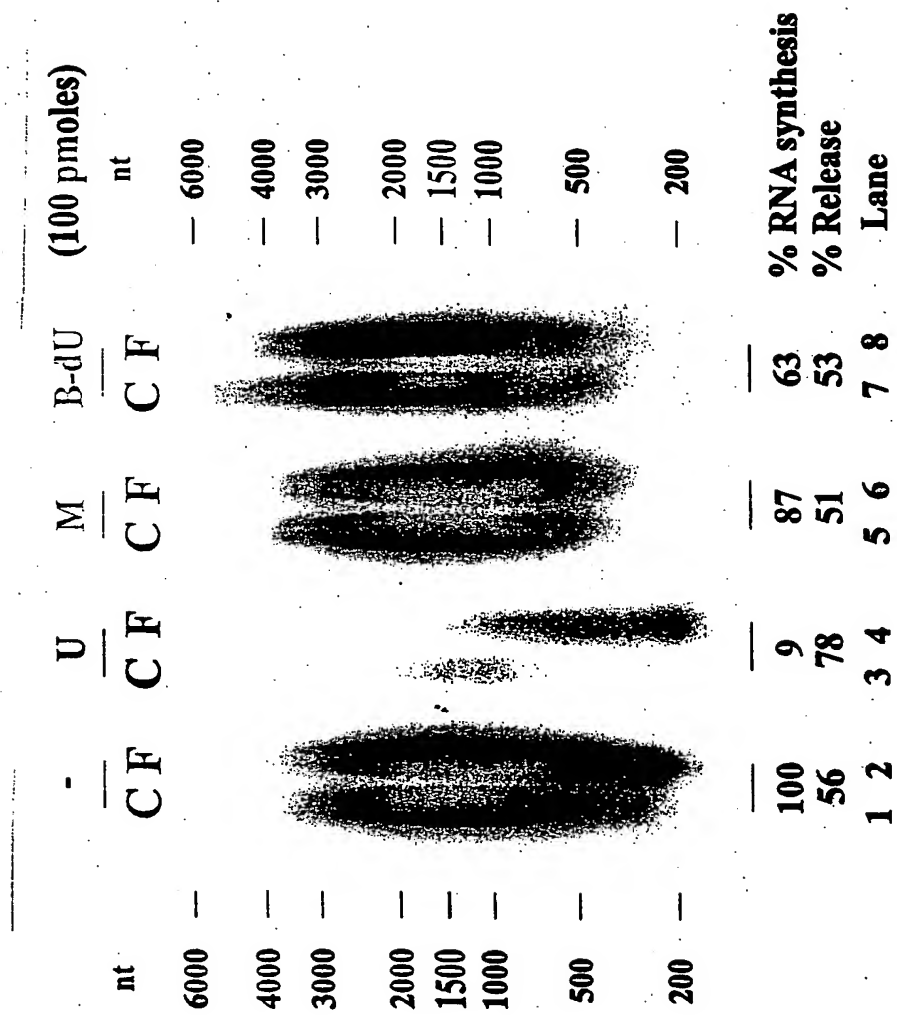


Fig. 12A

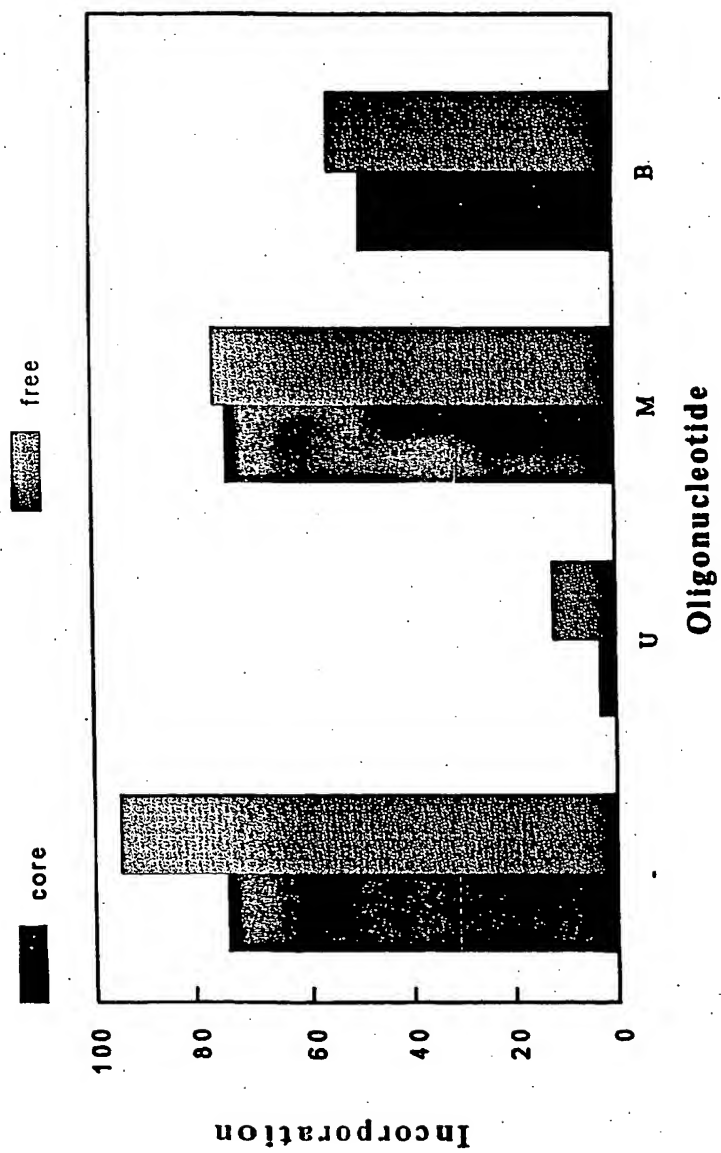
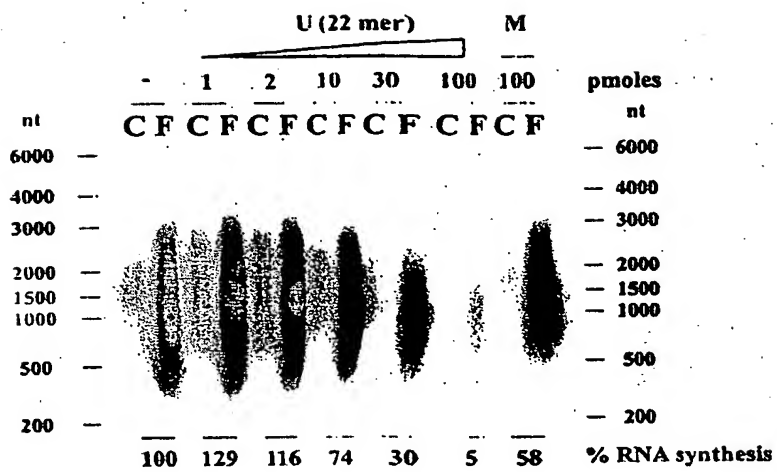


Fig. 12B





**Fig. 13A**

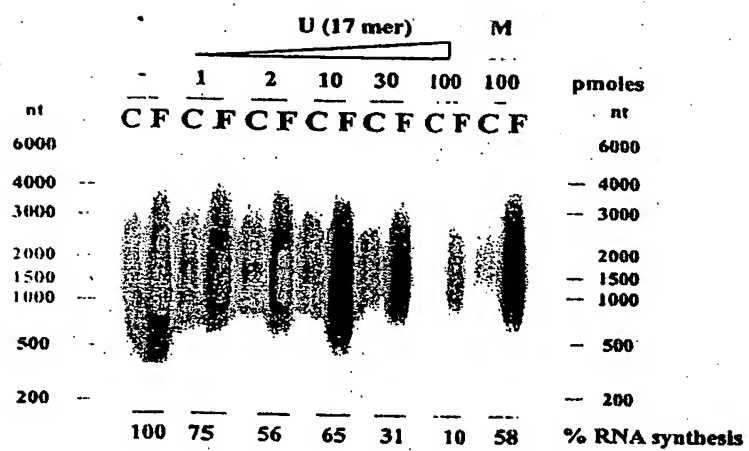


Fig. 13B

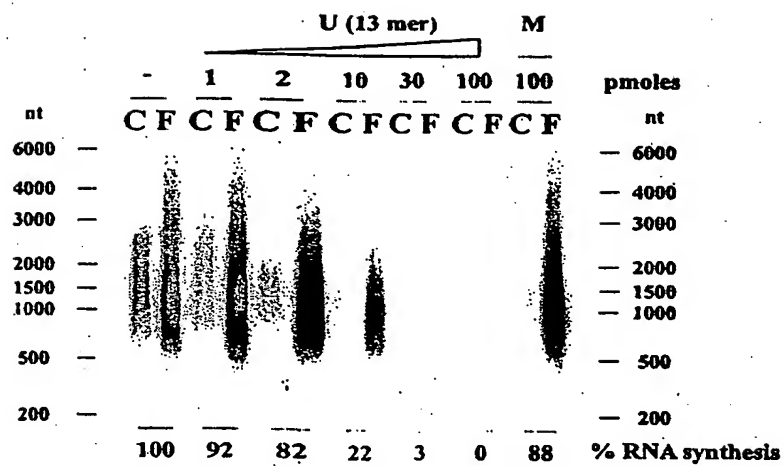


Fig. 13C

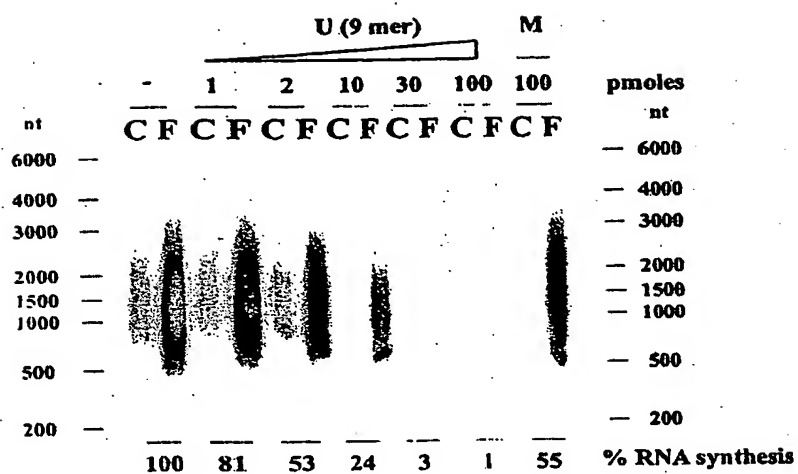
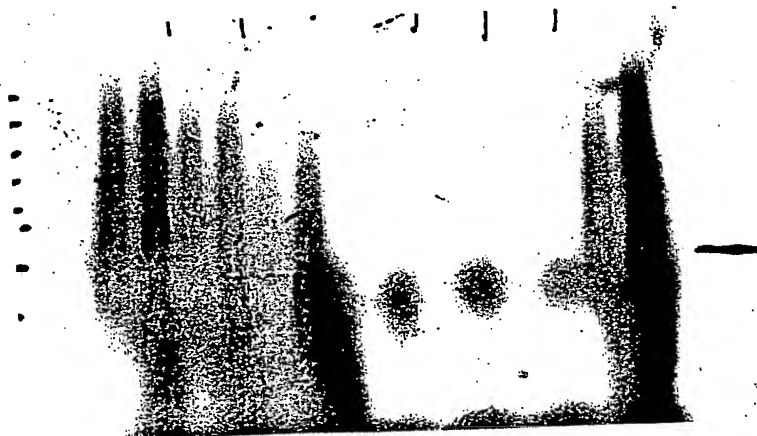


Figure 6

Fig. 13D

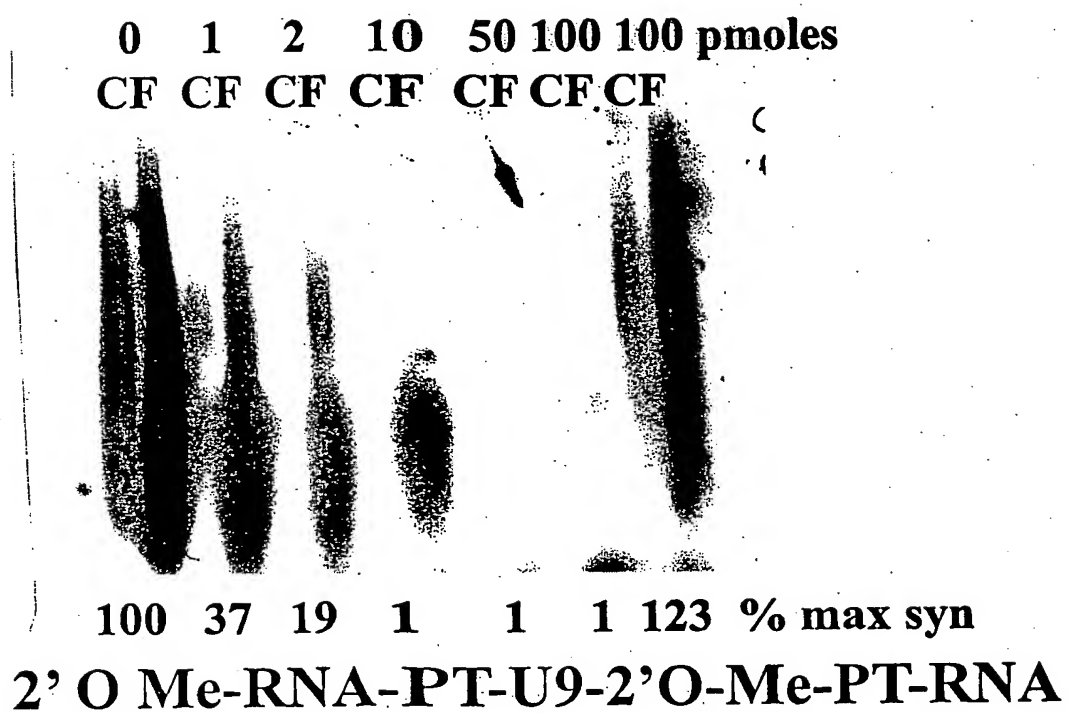
0 1 2 10 50 100 100 pmoles  
 CF CF CF CF CF CF CF



100 27 15 7 6 7 124 % max syn

DNA-PT-U9-DNA-PT

Fig. 14A



**Fig. 14B**